## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 02.05.2002 Bull tin 2002/18

(12)

(51) Int Cl.7: **B01L 3/00**, G01N 33/49, G01N 21/83

(43) Date of publication A2: 24.11.1999 Bulletin 1999/47

(21) Application number: 99830304.4

(22) Date of filing: 17.05.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 18.05.1998 IT RM980313

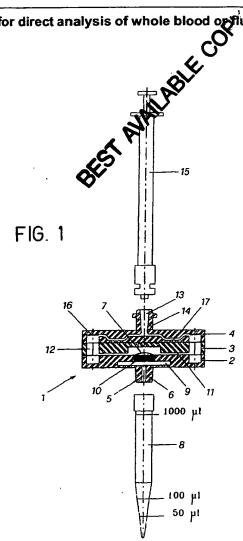
(71) Applicant: AMS s.r.l.
00012 Guidonia (RM) (IT)

(72) Inventor: Balducci, Diego 00012 Guidonia (IT)

(74) Representative: Iannone, Carlo Luigi et al Ing. Barzanò & Zanardo Roma S.p.A. Via Piemonte, 26 00187 Roma (IT)

(54) Multiuse reactive-plate for analysis, particularly for direct analysis of whole blood or fluids containing any kind of particles or fragments

The present invention relates to a multiuse reactive-plate (1) for analysis, particularly for direct analysis of whole blood or fluids containing any kind of particles or fragment, comprising a first element (2) or lower sector, a second element (3)or intermediate sector and a third element (4) or upper sector, all the above elements being made up of transparent material, said first element (4) providing a lower suction central hole (5), coupling means (6) provided with drawing system (8), a chamber (9) communicating with said central hole (5), an unidirectional valve (7) for the passage of the sucked fluid toward said second (3) and third (4) elements; said second element (3) providing a plurality of channels (11) communicating between said first element (2) and the lower half of a plurality of reaction wells (12), within which the diluent is provided; said third element (4) providing a number of half wells (12) corresponding to the number provided in said second element (3), within which the reactive (12) is provided, channels (17) communicating between said half of reaction wells (12) and a central hole (13), in correspondence of said central hole (13) coupling means (14) provided with sucking system (15) being provided; said first element (2) being fixedly coupled with said second element (3); said second element (3) and said third element (4) being coupled having their faced surfaces adhering, but in such a way to be able to rotate each other between a rest position, wherein the respective halves of reaction wells (12) do not correspond and an activation position, wherein the relevant halves of the reaction wells (12) correspond.



EP 0 958 862 A3



## **EUROPEAN SEARCH REPORT**

Application Number

EP 99 83 0304

Category	0:4-1:	DERED TO BE RELEVANT Indication, where appropriate.	Relevant	CLASSIEICATION
Javegory	of relevant pa	ssages	to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	9 September 1997 (  ∗ column 4, line 7		1-4	B01L3/00 G01N33/49 G01N21/83
Α	EP 0 490 447 A (LI 17 June 1992 (1992 * column 2, line 1 * column 3, line 1 * column 3, line 3	9 - line 40 * 0 - line 16 *	1,5,6	
A	EP 0 369 836 A (IN; PROBIOTEC SARL (F 23 May 1990 (1990-* column 8, line 8 * column 9, line 2	05-23) - line 23 *	1	
A	22 September 1992 * column 3, line 5 figures 3,5 *	4 - column 4, line 42;	1	TECHNICAL FIELDS SEARCHED (trd.Cl.6)
A	WO 95 30888 A (PALI 16 November 1995 ( * figure 9 *	MER RICHARD FREDERICKOR 1995-11-16) AWAILABLE	1	B01L G01N
	The present search report has			
	Place of search	Date of completion of the search		Examaner
	THE HAGUE	21 February 2002		uet, A
X : partic Y : partic docum A : techn O : non-t	TEGORY OF CITED DOCUMENTS ularly relevant if taken alone ularly relevant if combined with anol nent of the same category ological background written disclosure rediate document	E : earlier palent doc after the filing dat ther D : document cited in L : document cited fo	ument, but publist e the application rother reasons	hed on, or

EPO FORM (503 03.82 (PO4C01)

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 83 0304

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-02-2002

Patent document cited in search report			Publication date		Patent family member(s)		Publication date
US	5665238	A	09-09-1997	US	5866007	A	02-02-1999
				AU	695988	B2	27-08-1998
				AU	2439395	Α	05-12-1995
				WO	9531720	A1	23-11-1995
				CA	2190732	A1	23-1 <b>1-</b> 1995
				EP	0760950	A1	12-03-1997
EP	0490447	Α	17-06-1992	NL.	9002708	A	01-07-1992
				AT	125173	T	15-08-1995
				DE	69111394		2 <b>4-</b> 08-1995
				DE	69111394	T2	07-03-1996
				DK	490447	T3	27-11-1995
				EP	0490447	A1	17-06-1992
				ES	2077159	T3	16-11-1995
				JP	7005169	Α	10-01-1995
				US	5139742	A	18-08-1992
EP	0369836	Α	23-05-1990	FR .	2637687	A1	13-04-1990
				AT	86741	T	15-03-1993
				DE	68905300	D1	15-04-1993
				DE	68905300		12-08-1993
				EP	0369836	A1	23-05-1990
				ES	2039904	T3	01-10-1993
				JP	2222839	Α	05-09-1990
				JP	2775680	_	16-07-1998
				US	5009846	Α	23-04-1991
US	5149505	Α	22-09-1992	NONE			
	9530888	A	16-11-1995	WO	9530888	A1	16-11-1995

BEST AVAII ARIE COPY

FORM P0455

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82

THIS PAGE BLAWK (USPTO)

-

James and Alle